

AMENDMENTS TO THE CLAIMS

1       1. (Currently Amended) A sand screen for use in production of hydrocarbons from  
2 wells, comprising an intelligent completions device disposed in the sand screen,  
3               wherein the intelligent completions device comprises a sensor selected from the  
4 group consisting of a temperature sensor, a flow rate measurement device, a scale detector, and a  
5 sand detection device.

1       2. (Cancelled)

1       3. (Currently Amended) The sand screen of claim 1, wherein the intelligent  
2 completions device comprises [[a]] the temperature sensor.

1       4. (Cancelled)

1       5. (Currently Amended) The sand screen of claim 1, wherein the intelligent  
2 completions device comprises [[a]] the flow rate measurement device.

1       6. (Cancelled)

1       7. (Currently Amended) The sand screen of claim 1, wherein the intelligent  
2 completions device comprises [[a]] the scale detector.

1       8. (Currently Amended) The sand screen of claim 1, wherein the intelligent  
2 completions device comprises [[a]] the sand detection device.

1           9. (Currently Amended) A gravel pack system, comprising:  
2           a sand screen; and  
3           an intelligent completions device disposed within the sand screen, wherein the  
4 intelligent completions device comprises a sensor selected from the group consisting of a  
5 temperature sensor, a flow rate measurement device, a scale detector, and a sand detection  
6 device.

1           10. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent  
2           completions device comprises ~~a sensor~~ the flow rate measurement device.

1           11. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent  
2           completions device comprises [[a]] the temperature sensor.

1           12. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent  
2           completions device comprises ~~a pressure sensor~~ the scale detector.

1           13. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent  
2           completions device is ~~selected from a flow rate measurement device, an oil/water/gas ratio~~  
3 ~~measurement device, a scale detector, and a~~ comprises the sand detection device.

1           14. (Previously Presented) A gravel pack system comprising:  
2           a sand screen;  
3           an intelligent completions device disposed within the sand screen; and  
4           a fiber optic cable.

1           15. (Original) The gravel pack system of claim 9, further comprising a control line  
2           connected to the intelligent completions device.

1           16. (Original) The gravel pack system of claim 15, wherein the control line is selected  
2 from an electric line and a fiber optic line.

1           17. (Original) The gravel pack system of claim 9, further comprising a control line  
2 extending from the surface to the intelligent completions device.

1           18. (Currently Amended) A method for placing a gravel pack around a completion,  
2 comprising:

3                 gathering data from an intelligent completions device disposed in a sand screen of  
4 the completion, the intelligent completions device selected from the group consisting of a  
5 temperature sensor, a flow rate measurement device, a scale detector, and a sand detection  
6 device; and

7                 flowing a gravel slurry into the assembly wherein a gravel is deposited between  
8 the sand screen and a formation.

1           19. (Cancelled)

1           20. (Currently Amended) A method of monitoring a well characteristic of a well,  
2 comprising:

3                 running a control line to an intelligent completions device disposed in a sand  
4 screen, the intelligent completions device selected from the group consisting of a temperature  
5 sensor, a flow rate measurement device, a scale detector, and a sand detection device;

6                 running the sand screen into the well; and  
7                 sending a signal through the control line.

1           21. (Cancelled)

1           22. (Cancelled)

1           23. (Cancelled)

1           24. (Original) A method for gravel packing a well, comprising:  
2           running a sand screen into a particular length of the well;  
3           extending a fiber optic line into the particular length of the well; and  
4           gravel packing the well.

1           25. (Original) The method of claim 24, further comprising performing the running  
2           step at substantially the same time as the extending step.

1           26. (Original) The method of claim 24, further comprising performing the running  
2           step before the extending step.

1           27. (Currently Amended) A well completion, comprising:  
2           a sand screen;  
3           an intelligent device disposed within the sand screen, the intelligent device  
4           selected from the group consisting of a temperature sensor, a flow rate measurement device, a  
5           scale detector, a sand detection device, and a flow control device; and  
6           a service string adapted to perform sand-control pumping and circulation  
7           operations.

1           28. (Previously Presented) The gravel pack system of claim 9, further comprising an  
2           assembly to perform a gravel pack operation.

1           29. (Previously Presented) The method of claim 20, further comprising performing  
2 sand-control pumping and circulation operations.

1           30. (New) A sand screen for use in production of hydrocarbons from wells,  
2 comprising an intelligent completions device disposed in the sand screen,  
3                   wherein the intelligent completions device comprises a device selected from the  
4                   group consisting of a temperature sensor, a flow rate measurement device, a scale detector, a  
5                   sand detection device, and a flow control device.

1           31. (New) A gravel pack system, comprising:  
2                   a sand screen; and  
3                   an intelligent completions device disposed within the sand screen, wherein the  
4                   intelligent completions device comprises a sensor selected from the group consisting of a  
5                   temperature sensor, a flow rate measurement device, a scale detector, a sand detection device,  
6                   and a flow control device

1           32. (New) A method of monitoring a well characteristic of a well, comprising:  
2                   running a control line to an intelligent completions device disposed in a sand  
3                   screen, the intelligent completions device selected from the group consisting of a temperature  
4                   sensor, a flow rate measurement device, a scale detector, a sand detection device, and a flow  
5                   control device;  
6                   running the sand screen into the well; and  
7                   sending a signal through the control line.